This circular will be sent regularly to all who apply for it.

United States Department of Agriculture,

WASHINGTON, D. C., *December 31, 1913.*

MONTHLY LIST OF PUBLICATIONS.

[DECEMBER, 1913.]

NOTE.—**Copies of any of the publications listed herein, except the Journal of Agricultural Research and separates therefrom and publications of the Weather Bureau, may be obtained free upon application to the Editor and Chief of the Division of Publications, United States Department of Agriculture, Washington, D. C., as long as the department's supply lasts.** The edition of many of the publications is necessarily limited, and when same is exhausted applicants are respectfully referred to the superintendent of documents, Government Printing Office, Washington, D. C., who, under the provisions of the joint resolution of March 28, 1904, is empowered to have reprints made and sell them at the prices herein given. Do not apply to the superintendent of documents for publications **without sending the price of same,** as he does not distribute them except by sale. The price of any document, unless otherwise noted, is 5 cents.

The Department of Agriculture does not distribute or control the distribution of the publications of other departments of the Government, the State boards of agriculture, or of the State agricultural experiment stations.

REPORTS.

Report of the Secretary, 1913. Pp. 58.
Report of the Chief of the Bureau of Animal Industry, 1913. Pp. 34.
Report of the Chemist, 1913. Pp. 9.
Report of the Forester, 1913. Pp. 56.
Report of the Chief of the Bureau of Plant Industry, 1913. Pp. 29.
Report of the Chief of the Bureau of Statistics, 1913. Pp. 6.

SERIALS.

The Journal of Agricultural Research. Vol. 1. No. 3. December, 1913. Contents: Selective Adsorption by Soils. By E. G. Parker.—A Bacterium Causing a Disease of Sugar-Beet and Nasturtium Leaves. By Nellie A. Brown and Clara O. Jamieson.—The Calliephialtes Parasite of the Codling Moth. By R. A. Cushman.—Polyporus Dryadeus, a Root Parasite on the Oak. By W. H. Long.—The Foot-Rot of the Sweet Potato. By L. L. Harter. Pp. 179–274, pls. 17–28, figs. 23. Price, 25 cents.

NOTE.—The JOURNAL OF AGRICULTURAL RESEARCH will be distributed free *only* to the libraries of agricultural colleges and experiment stations, to large universities, technical schools, and such institutions as make suitable exchanges with the department. It will not be sent free to individuals. The superintendent of documents will receive subscriptions for this publication, the price being $2.50 per volume of 12 numbers.

Experiment Station Record. Vol. XXIX. No. 6. Abstract number. E. W. Allen, Ph. D., editor. Pp. 501–600. Price, 15 cents.

The record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries, articles and editorials on topics of special interest in agricultural science by American and foreign experts, and notes on the experiment stations. The superintendent of documents has fixed the price of this serial, which is now issued in two volumes a year, nine numbers each, at $1 a volume.

SOIL SURVEYS.

Soil Survey of Clarke County, Alabama. By C. S. Waldrop and L. Cantrell, of the U. S. Department of Agriculture, and P. H. Avary and N. Eric Bell of the Alabama Department of Agriculture and Industries. Pp. 31, pl. 1, fig. 1, map. (From F. O. Soils, 1912.) Price, 15 cents.

Soil Survey of East Feliciana Parish, Louisiana. By Charles J. Mann and Percy O. Wood. Pp. 41, fig. 1, map. (From F. O. Soils, 1912.) Price, 15 cents.

Soil Survey of Lincoln County, Mississippi. By A. L. Goodman, of the U. S. Department of Agriculture, and E. M. Jones, of the Mississippi Geological Survey. Pp. 29, fig. 1, map. (From F. O. Soils, 1912.) Price, 15 cents.

A Reconnoissance Soil Survey of Northeastern Pennsylvania. By Charles F. Shaw, of the U. S. Department of Agriculture, and J. M. McKee and W. G. Ross, of the Pennsylvania State College. Pp. 63, fig. 1, map. (From F. O. Soils, 1911.) Price, 15 cents.

Soil Survey of Harrison County, Texas. By Cornelius Van Duyne and W. C. Byers. Pp. 47, pl. 1, fig. 1, map. (From F. O. Soils, 1912.) Price, 15 cents.

BULLETINS.

The Fish-Scrap Fertilizer Industry of the Atlantic Coast. By J. W. Turrentine, Scientist in Soil Laboratory Investigations. Pp. 50, pls. 6. Contribution from the Bureau of Soils. Dec. 27, 1913. (Department Bulletin 2.) Price, 10 cents.

A part of the general plan to survey the Nation's assets in fertilizer materials. The information is largely statistically expressed in terms of equipment, output, and present and proposed development, and is of special value to manufacturers of the fertilizers, but of course of general interest to farmers who are purchasers of fertilizers containing fish scrap.

An Economic Study of Acacias. By Charles Howard Shinn, Forest Examiner. Pp. 38, pls. 11. Contribution from the Forest Service. Dec. 5, 1913. (Department Bulletin 9.) Price, 10 cents.

Attention is called to the economic importance of the leading acacias with the idea of bringing about more general planting, as many species have proved themselves to be entirely at home over large areas, and in fact have become naturalized, in California. Warning is given, however, that fuller and extended work on the growth and products of acacias, based on American-grown trees, is necessary before extensive commercial operations are undertaken, as the rates of growth and the yields of various species on different soils, especially under plantation conditions, have not been definitely determined.

The Management of Sheep on the Farm. By Edward L. Shaw and Lewis L. Heller, of the Animal Husbandry Division. Pp. 52, pls. 4, figs. 15. Contribution from the Bureau of Animal Industry. Dec. 17, 1913. (Department Bulletin 20.) Price, 10 cents.

A popular article of interest to farmers everywhere, treating of the raising of sheep on farms (not the western ranges), showing how to establish a flock, size of flock, how to care for it, the feed and its production, shearing and care of the wool, cost of maintenance per head, and value of sheep as soil improvers and weed destroyers. Thousands of farms which now raise no sheep and many others where the size of the flock should be increased would show an added profit to the farmer if sheep raising was made a prominent factor in their management. Mutton is the logical solution of the high cost of meat problem, and the farms, not the ranges, must supply it.

The Shrinkage in Weight of Beef Cattle in Transit. I. Southwestern Shrinkage Work of 1910–11. By W. F. Ward.—II. Northwestern Shrinkage Work of 1911–12. By James E. Downing.—III. Northwestern and Southwestern Shrinkage Work of 1911. By W. F. Ward.—IV. Summary of the Three Years' Shrinkage Work. By W. F. Ward. Pp. 78. Contribution from the Bureau of Animal Industry. Dec. 16, 1913. (Department Bulletin 25.) Price, 10 cents.

A three years' study of the loss of weight in beef cattle shipped to market from the Northwestern and Southwestern ranges and from the feeding pens of the Central West, of interest to shippers and traders in market cattle, providing data to be used as an equitable basis for adjusting claims, and upon which cattlemen can calculate from the market reports the value of their cattle at home.

American Medicinal Flowers, Fruits, and Seeds. By Alice Henkel, Assistant, Economic and Systematic Botany. Pp. 16, figs. 12. Contribution from the Bureau of Plant Industry. Dec. 18, 1913. (Department Bulletin 26.) Price, 5 cents.

A list of 14 plants furnishing medicinal flowers, fruits, and seeds, with synonyms and pharmacopœial name, the common name, habitat, range, description, and information in regard to the collection, prices, and uses of the parts which seem to be in greatest demand at present. Of interest to collectors, growers, and drug dealers generally.

Behavior, Under Cultural Conditions, of Species of Cacti Known as Opuntia. By David Griffiths, Agriculturist, Office of Farm Management. Pp. 24, pls. 8. Contribution from Bureau of Plant Industry. Dec. 30, 1913. (Department Bulletin 31.) Price, 10 cents.

Investigations conducted at Brownsville and San Antonio, Tex., and Chico, Cal., upon over 1,000 varieties of prickly pear and cane cacti have accumulated a large number of data, a few of the salient features of which are detailed in this paper. Full details are reserved for future publications, but scientists and stock raisers living in the cacti-producing country will find here points having a bearing on some of the economic aspects of this group of plants.

Nitrogenous Fertilizers Obtainable in the United States. By J. W. Turrentine, Scientist in Soil Laboratory Investigations. Pp. 12. Contribution from the Bureau of Soils. Dec. 8, 1913. (Department Bulletin 37.) Price, 5 cents.

A report on the production and consumption of sodium nitrate, sulphate of ammonia, artificial nitrates, calcium cyanamide, tankage, and dried blood in the United States, which is of special interest to the manufacturers and users of fertilizers, because of the agronomic necessity which compels the use of nitrogenous fertilizers and the scarcity of nitrogenous compounds available for fertilizer purposes.

American-grown Paprika Pepper. By Thomas B. Young, Scientific Assistant, and Rodney H. True, Physiologist in Charge, Drug-Plant, Poisonous-Plant, Physiological and Fermentation Investigations. Pp. 24, figs. 11. Contribution from the Bureau of Plant Industry. Dec. 16, 1913. (Department Bulletin 43.) Price, 5 cents.

Tells how to grow, cultivate, and cure the crop, and discusses the economic, as well as the agricultural, phases of cultivating and marketing red peppers of the type furnishing the Hungarian paprika. It is specially interesting to the farmers of the South Atlantic and Gulf States or other localities with a long growing season and ample and well-distributed rainfall.

The Blights of Coniferous Nursery Stock. By Carl Hartley, Assistant Pathologist, Office of Investigations in Forest Pathology. Pp. 21. Contribution from the Bureau of Plant Industry. Dec. 12, 1913. (Department Bulletin 44.) Price, 5 cents.

A discussion of blights occurring in coniferous trees in nurseries, in which sun scorch, winterkilling, mulch injury, needle diseases, and red-cedar blight are described. Distinguishing characters and preventive measures have been determined.

A Descriptive Catalogue of the Soils of Virginia so far Identified in the Soil Survey. Pp. 21, figs. 7. Contribution from the Bureau of Soils. Dec. 15, 1913. (Department Bulletin 46.) Price, 5 cents.

A brief description of the different soils of Virginia, found in the 12 widely separated areas surveyed by the Bureau of Soils. Parts or all of 31 of the counties of the State are included, and the paper contains information of value to all farmers of the State.

The Shrinkage of Shelled Corn While in Cars in Transit. By J. W. Duvel, Crop Technologist in Charge of Grain Standardization Investigations, and Laurel Duval, formerly in Charge of the Grain Standardization Laboratory at Baltimore, Md. Pp. 21, figs. 8. Contribution from the Bureau of Plant Industry. Dec. 19, 1913. (Department Bulletin 48.) Price, 5 cents.

The data contained comprise the results of four special shipments of corn from Baltimore, Md., to Chicago, Ill., and return, and show a natural shrinkage in commercial corn during transit and while in storage, presenting to shippers and dealers valuable information as to variation due to moisture content and atmospheric conditions.

Proceedings of the Twenty-Ninth Annual Convention of the Association of Official Agricultural Chemists, held at Washington, D. C., Sept. 16–18, 1912. Edited by W. D. Bigelow, Secretary of the Association, with the Collaboration of G. O. Savage, Editor, Bureau of Chemistry. Pp. 245, figs. 2. (Bulletin 162, Bureau of Chemistry.) Price, 25 cents.

All general discussion has been omitted, only the reports and correlated papers which affect conduct of the work being presented.

UNIVERSITY OF FLORIDA
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The Abutilon Moth. By F. H. Chittenden, Sc. D., In Charge of Truck Crop and Stored Product Insect Investigations. Pp. 10, pls. 5. (Bulletin 126, Bureau of Entomology.) Price, 5 cents.

A technical paper, giving the habits, synonymy, description, experiments in control, and bibliography of a pest that badly injured okra, hollyhock, and abutilon at Diamond Springs, Va., in 1909.

Farmers' Bulletins.

Bean Growing in Eastern Washington and Oregon, and Northern Idaho. By Lee W. Fluharty, Assistant Agriculturist, Office of Farm Management. Pp. 12, figs. 5. Contribution from the Bureau of Plant Industry. Dec. 8, 1913. (Farmers' Bulletin 561.)

The Organization of Boys' and Girls' Poultry Clubs. By Harry M. Lamon, Senior Animal Husbandman in Poultry Investigations. Pp. 12, figs. 6. Contribution from the Bureau of Animal Industry. Dec. 18, 1913. (Farmers' Bulletin 562.)

The Agricultural Outlook. Contribution from the Bureau of Statistics. Dec. 27, 1913. Estimated Farm production for 1913 Compared with that of 1912. Pp. 35. (Farmers' Bulletin 570.)

Note.—The Agricultural Outlook will be issued at irregular intervals as a Farmers' Bulletin, superseding the Crop Reporter, which has been discontinued.

Separates.

Work and Expenditures of the Agricultural Experiment Stations, 1912. By E. W. Allen and J. I. Schulte. Pp. 43–231, pls. 10. (From Annual Report Office of Experiment Stations, 1912.)

Statistics of Land-Grant Colleges and Agricultural Experiment Stations, 1912. By Butler B. Hare, Assistant in Agricultural Education. Pp. 233–277. (From Annual Report Office of Experiment Stations, 1912.)

Publications of the Weather Bureau.

Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau or the Superintendent of Documents, Government Printing Office, at the prices noted herein.

Bulletin of the Mount Weather Observatory, vol. 6, pt. 2. Pp. 35–60, figs. 12. (W. B. No. 517.) Price, 25 cents.

Snow and Ice Bulletins for December 2, 9, 16, 23, 30. These bulletins are issued weekly during the winter season, based upon data from regular Weather Bureau stations, supplemented by reports from selected cooperative observers. Price, 25 cents a year.

National Weekly Weather Bulletin No. 31, for December, 1913, reporting temperature and rainfall, with a summary of weather conditions throughout the United States. (Weekly April-September, Monthly remainder of year.) Price, 25 cents a year.

Jos. A. Arnold,
Editor and Chief Division of Publications.

Approved.
D. F. Houston,
Secretary of Agriculture.

WASHINGTON : GOVERNMENT PRINTING OFFICE : 1914